



भारत का राजपत्र

The Gazette of India

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No. 32] NEW DELHI, SATURDAY, AUGUST 10, 1991 (SRAVANA 19, 1913)

इस भाग में भिन्न पुष्ट संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS
Calcutta, the 10th August, 1991

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

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Todi Estates, III Floor,
Lower Parel (West),
Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No 401 to 405, III Floor,
Municipal Market Building,
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New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi

Telegraphic address "PATENTOFIC".

Patent Office Branch,
61, Wallajah Road,
Madras-600 002

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands

Telegraphic address "PATENTOFIS"

Patent Office (Head Office).
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS"

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलाकर्ता, दिनांक 10 अगस्त 1991

पेटेंट कार्यालय के कार्यालयों के पहुंच क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलाकर्ता में स्थित है तथा अम्बई दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रावेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा टोही ब्ल्स्टेट,
तीसरा तला लोउर परेल (परिचम)
अम्बई-400 013

गुजरात, मध्यप्रदेश राज्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ
दमन तथा दिव एवं दादरा और नागर हवेली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
हकाई सं० 401 से 405, तीसरा तला,
नारेपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर पेजाब, राजस्थान तथा
उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिक”

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970

The 26th June, 1991

486/Cal/91 Johnson & Johnson Consumer Products Inc Package, particularly for sticks having cotton buds

The 27th June, 1991

487/Cal/91 BWG Butzbacher Weichenbau GmbH A device for locking a switch blade with a stock rail

488/Cal/91 Mcneil-Ppc. Inc Integrally belted absorbent products

489/Cal/91 Mcneil-Ppc. Inc Absorbent product having mechanical attachment mechanism

490/Cal/91 Hoechst Ag Process for the preparation of water soluble azo compounds [Divisional dated 16th November, 1988]

The 28th June, 1991

491/Cal/91 Metallegesellschaft Aktiengesellschaft. Process of cooling hot process gases

पेटेंट कार्यालय शाखा

61, वालाजाह रोड,
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्ष्मीपुर मिनिकॉर्ट तथा एमिनिशिय द्वीप।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय)
निजाम पैलेस द्वितीय बहुतरीय कार्यालय
मवन 5, 6 तथा 7वां तला
234/4, आचार्य जगदीश बोस रोड,
कलाकर्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—“पेटेंटोस”

पेटेंट अधिनियम 1970 या पेटेंट नियम, 1972 में अप्रैक्षित सभी आवेदन-पत्र, सुचनाएँ विवरण या अन्य प्रतेक पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की दरायागी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को मुगलान योग्य घनादेश अथवा ढाक आवेदा या जहा उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसृष्टि बैंक से नियंत्रक को मुगलान योग्य बैंक फ्राफ्ट अथवा बैंक ढारा की जा सकती है।

492/Cal/91 Josef Meissner GmbH & Co Process to avoid the formation of waste water during hexamine production

493/Cal/91 Atochem Limited Improvements in or relating to thermoplastic compositions comprising a copolymer based on ethylene and maleic anhydride, process of making same, and industrial articles such as films obtained from such a composition.

494/Cal/91 Pratilla Chandra Raih Electric Switch (A.C) incorporating semiconductor diode or diodes

The 1st July, 1991

495/Cal/91 Intent Patents A.G Universal electronic ballast system

496/Cal/91 E.I. Du Pont De Nemours and company Improved process for recovering organic vapors from air

497/Cal/91 Owens-Corning Fiberglas Corporation Thermoplastic low-profile additives and use thereof in polyester resin compositions

498/Cal/91 Medicus Corporation Improved ointment base and method of use

The 2nd July, 1991

499/Cal/91 Orissa Industries Limited An improved high temperature shaft kiln for producing dead burnt refractory materials

500/Cal/91 **Whitemoss, Inc.** Radial piston fluid machine and/or adjustable rotor.

501/Cal/91 **R. Audemars Sa.** Method and device for cutting materials.

502/Cal/91 **Lenzing Aktiengesellschaft.** Solution of cellulose in water and N-Methylmorpholine-N-Oxide.

503/Cal/91 **Johnson & Johnson Inc.** Low fluid pressure dual-sided fiber entanglement method, apparatus and resulting product

The 3rd July, 1991

504/Cal/91 **Siemens Aktiengesellschaft.** Method for operating an information transmission bubs.

The 4th July, 1991

505/Cal/91 **Otto India Limited.** A high pressure liquor aspiration device.

506/Cal/91 **Otto India Limited.** A device for cleaning coke-oven top.

507/Cal/91 **Otto India Limited.** A drag plough extractor.

508/Cal/91 **Otto India Limited.** An improved spray quenching apparatus for producing low-moisture coke.

509/Cal/91 **Otto India Limited.** A coke spillage conveyor.

510/Cal/91 **Otto India Limited.** A device for reclaiming coke breeze.

511/Cal/91 **Copeland Corporation.** Scroll machine with floating seal.

512/Cal/91 **Mitsui Petrochemical Industries, Ltd.** Process for producing purified terephthalic acid.

513/Cal/91 **Dimalt Aktiengesellschaft.** Method of producing essentially hull-and-sprout-free polysaccharides from the endosperm of the seed of the *prosopis juliflora*. [Divisional dated 11th November, 1988]

The 5th July, 1991

514/Cal/91 **Phillips Petroleum Company.** Process for preparing arylene sulfide sulfone copolymers.

515/Cal/91 **Phillips Petroleum Company.** Reinforced plastic comprising an arylene sulfide sulfone copolymer matrix.

516/Cal/91 **Great Truth Co. Ltd.** Receptacle for containing things and providing amusing effects.

517/Cal/91 **Hunter Douglas International N.V.** Method and apparatus for mounting a retractable window covering.

APPLICATION FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TUDI ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY-13

The 6th May, 1991

124/Bom/91 **Mr Anirudha Shivprasad Bhagat and Mrs Shakuntala Anirudha Bhagat.** Means and Improvement for construction of Bridges for Traffic in Cities quickly, economically and efficiently with minimum disruption to the traffic during construction.

125/Bom/91 **Mr Anirudha Shivprasad Bhagat and Mrs Shakuntala Anirudha Bhagat.** Means and Improvement for replacement of Railway's Steel Bridge Girders quickly and without Electric Power Block which is more efficient safe and economical so also the operation does not block the 2nd return tracks providing large savings in operations of Railways.

126/Bom/91 **Mr. Ravi Kamal Bali.** Locking the Fibre Drum, Hdpe Carboys.

The 7th May, 1991

127/Bom/91 **Hindustan Lever Limited.** Cosmetic Composition. 10th May 1990, Gr. Britain.

128/Bom/91 **Hindustan Lever Limited.** Cosmetic Composition. 10th May 1990, Gr. Britain.

129/Bom/91 **Hindustan Lever Limited.** Cosmetic Composition. 10th May 1990, Gr. Britain.

The 9th May, 1991

130/Bom/91 **Satyawrat Swami Rao Ponkshe, Mrs. Suniti Satyawrat Ponkshe & Master Raghavendra Satyawrat Ponkshe.** "An improved tooth Brush."

131/Bom/91 **Sudarshan Chemical Industries Limited.** "A Process to Accomplish destruction of free and complex cyanide Compounds in Solutions".

132/Bom/91 **Raam Venketesh Paranjpe.** "Self Irrigating pot for plants."

133/Bom/91 **Pestonji Narimanji Contractor.** Power transmission differential gear device for three to multi wheeler Auto vehicles.

134/Bom/91 **Electronica Exports Private Ltd.** An Electric Discharge Machine.

The 10th May, 1991

135/Bom/91 **Hindustan Lever Limited.** Process for preparing Soap ACYL Isethionate Composition.

136/Bom/91 **Hindustan Lever Limited.** Preparation of Concentrates of Colouring Agents. 19th March, 1991, Gr. Britain.

137/Bom/91 Dr. Chandrakant Dnyandev Lokhande and Mr. Sangappa Sidramppa Dhumure. "A chemical method for silver disulphide thin film deposition"

138/Bom/91 Sham Bhalachandra Antoorkar. "Improved Fell Prevention Device."

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600002

The 27th May, 1991

399/Mas/91 Ocular Research of Boston Inc., Dry Eye treatment process and solution.

400/Mas/91 British Telecommunications plc. An apparatus for classifying a set of values representing a two-dimensional pattern (November 20, 1986; United Kingdom).
[Divisional to Patent Application No. 827/Mas/87]

401/Mas/91 British Telecommunications plc. An apparatus for classifying a set of values representing a two-dimensional pattern (November 20, 1986, United Kingdom). (Divisional to Patent Application No. 827/Mas/87).

402/Mas/91 British Telecommunications plc. An apparatus for classifying a set of values representing a two-dimensional pattern. (November 20, 1986, United Kingdom) (Divisional to Patent Application No. 827/Mas/87).

403/Mas/91 Transflux Holdings Limited. Apparatus for heating a fluid. (May 29, 1990, New Zealand).

404/Mas/91 Sanyo Electric Co. Ltd., Control device for absorption refrigerator.

The 29th May, 1991

405/Mas/91 Mahadeva Subbaraya Venkataramana Sarma. Thermo Magnetic motor.

406/Mas/91 Lucas-TVS Limited. An electronic regulator for DC charging systems.

407/Mas/91 Malayude Vadakkethil Raghavan Chandramohan. A unified theory of dynamics.

408/Mas/91 Sellweger Uster AG. Device for manipulating healds or drop wires in a warp thread drawing in machine.

409/Mas/91 Senetek, PLC. Method and composition for ameliorating the adverse effects of aging.

410/Mas/91 Cavitation-Control Technology, Inc. Method for the production of medical-grade lipid-coated microbubbles, paramagnetic labelling of such microbubbles and therapeutic uses of microbubbles.

The 30th May, 1991

411/Mas/91 Narendran Sambamurthi. An iron rest

412/Mas/91 Morisawa & Company Ltd. and Nobuo Morisawa. Parking time display device equipped in a vehicle with a motor.

413/Mas/91 Michael J. McLaren. Automatic derailleur shifter.

414/Mas/91 Himont Incorporated. Process for the preparation of aryl-substituted propionic acid esters.

415/Mas/91 Adryx Oil Group N.V. Container for the transport of a substance in solid condition.

The 31st May, 1991

416/Mas/91 Caterpillar Inc. Retention shelf for an engine.

417/Mas/91 Amsted Industries Incorporated. Rotary Coupler Assembly for Railway Vehicle.

418/Mas/91 Amsted Industries Incorporated. Improved coupler member retention in a railway vehicle.

The 3rd June, 1991

419/Mas/91 Venugopal Desikan. Advancement in Auto-Giro Aircraft.

420/Mas/91 Lennart A. Alfredeen. Electromagnetic device for heating metal elements.

421/Mas/91 Korea Advanced Institute of Science and Technology. Synthesis of Melamine.

422/Mas/91 Mobil Oil Corporation. Synthetic porous crystalline material, its synthesis and use.

423/Mas/91 John crane Inc. Split mechanical face seal.

The 4th June, 1991

424/Mas/91 A. Lakshminarayana. Cooking gas stove.

425/Mas/91 Monsanto company. Process for dehydrogenation of paraffin.

426/Mas/91 Audenried W Knapp. Films in automatic film processors.

427/Mas/91 Laboratories Biotrol. Stoma equipment.

428/Mas/91 Aware Inc. Improved image compression system.

The 5th June, 1991

429/Mas/91 Rajeev Kamalabai Russel. A device for activating a fluorescent tube lamp fused at one end.

430/Mas/91 American Telephone and Telegraph Company. Cable having non-metallic armoring layer. (Australia, 22nd June 1990).

431/Mas/91 American Telephone and Telegraph Company. Optical fiber splicing device. (Australia, 27th June 1990).

432/Mas/91 Flo-con systems, Inc. Cantilever spring mount for sliding gate valve and method.

	The 6th June, 1991	
433/Mas/91	Altrack Limited. Ground engaging element. (Australia, 6th June 1990).	449/Mas/91 Maschinenfabrik Rieter AG. An apparatus for automatically compensating density variations of fiber material at a textile machine. (Divisional to Patent Application No. 741/Mas/87).
	The 7th June, 1991	
434/Mas/91	A.J. Srinivasan. Toy helicopter.	450/Mas/91 Maschinenfabrik Rieter AG. An apparatus for automatically compensating density variations of fiber material at a textile machine. (Divisional to Patent Application No. 741/Mas/87).
435/Mas/91	Palitex project company GmbH. Method of automatically adapting the braking force of a yarn brake arranged in the hollow shaft of a two-for-one twisting spindle and including a two-for-one twisting spindle equipped with a corresponding yarn brake.	451/Mas/91 Maschinenfabrik Rieter AG. An apparatus for automatically compensating density variations of fiber material at a textile machine (Divisional to Patent Application No. 741/Mas/87).
436/Mas/91	Maschinenfabrik Rieter AG. An apparatus for detecting thickness variations of a mass of fiber material at the infeed of a textile machine. (Divisional to Patent Application No. 740/Mas/87).	The 12th June, 1991
437/Mas/91	Maschinen Fabrik Rieter AG. An apparatus for detecting thickness variations of a mass of fiber material at the infeed of a textile machine. (Divisional to P.A. No. 740/Mas/87).	452/Mas/91 Giovanni Arvedi. Process and plant for obtaining steel strip coils having cold-rolled characteristics and directly obtained in a hot-rolling line.
438/Mas/91	Maschinenfabrik Rieter AG. An apparatus for detecting thickness variations of a mass of fiber material at the infeed of a textile machine. (Divisional to Patent Application No. 740/Mas/87).	453/Mas/91 Framatome. Adaptor for screwing or unscrewing a threaded connecting element.
439/Mas/91	OI-NEG TV products Inc. Apparatus for non-contact spatial measurement of the separation of a workpiece edge from a reference edge. (Divisional to Patent Application No. 815/Mas/87).	454/Mas/91 Framatome. Device for the automatic handling of a plurality of positioning and/or connecting elements.
	The 10th June, 1991	455/Mas/91 Turbine Blading Limited. Improvements in or relating to the repair of turbine blades. (June 21, 1990, United Kingdom).
440/Mas/91	M. Kesava Rao & M. Sukesh. "STUD" (Shear Terra ultra Drill)	The 13th June, 1991
441/Mas/91	International Business Machines Corporation. Personal Computer with processor reset control.	456/Mas/91 Merlin Gerin. High-voltage circuit breaker with gas insulation and pneumatic operating mechanism.
442/Mas/91	International Business Machines Corporation. Personal computer with alternate system controller.	457/Mas/91 Nolia-Maillefer Holdings S.A. An apparatus for reverse stranding and a method in connection with stranding and reverse stranding.
443/Mas/91	International Business Machines Corporation. Personal Computer with anticipatory memorycontrol signalling.	The 14th June, 1991
444/Mas/91	International Business Machines Corporation. Personal computer with local bus arbitration.	458/Mas/91 The Charles Stark Draper Laboratory Ind. System for joining limp material segments with easing.
	The 11th June, 1991	459/Mas/91 Inventio AG. Gearless drive machine for lifts.
445/Mas/91	Caterpillar Inc. Isolated rim roller assembly.	OPPOSITION PROCEEDINGS
446/Mas/91	Maschinenfabrik Rieter AG. Device for the automatic piecing or start spinning of a thread and a method for cleaning a spinning machine.	The Opposition entered by Vikram Forgings & Allied Industries Private Limited to the grant of a Patent on application No. 164982 made by Trade & Industry Private Limited as notified in the Gazette of India, Part III, Section 2 dated 3rd February, 1990 has been dismissed and ordered that patent shall not be sealed until the other opposition to the grant of a patent on the same is decided.
447/Mas/91	Miltiathis Markou. A method and device for improving the combustion efficiency of an internal combustion engine.	PRINTED SPECIFICATION CHALLAN
448/Mas/91	Turbine Blading Limited. Method of repair of turbines. (June 12, 1990, United Kingdom)	A limited number of Printed Copies of the under-noted Specifications are available for sale from the PATENT OFFICE, CALCUTTA and its three Branches at Bombay, Madras and Delhi at Rs. 2/- (Rupees two only) per copy.

(1)

REGISTRATION OF ASSIGNMENTS LICENCES, ETC.
(PATENTS)

114367.

(2)

Assignments, Licences or other transactions affecting the interest of the original patentees have been registered in the following cases.

142445.

(3)

The number of each case is followed by the name of the parties claiming interests:—

142828.

151352 & 151873 — BRAKES INDIA LIMITED

(4)

143323.

AMENDMENTS PROCEEDINGS UNDER SECTION 57

(5)

(1)

144028.

(5A)

Notice is hereby given that *DE BEERS CONSOLIDATED MINES LTD.*, 36, Stockdale Street, Kimberley, South Africa, have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 160790 for "A METHOD AND APPARATUS FOR EXTRACTING DIAMONDS FROM DIAMONDIFEROUS ORE OR GANGUE". The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form—30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

144310.

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158548 158549 158550 158551 158552 158553 158554 158555 158556
158557 158558 158559 158560.

(2)

Notice is hereby given that the *SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT*, a German Company of Friedrich-Ebert-Strasse 84, 8070 Ingolstadt, Germany, have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 166213 for "A METHOD AND APPARATUS FOR OBTAINING DUST FREE FIBRE". The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form—30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

PATENTS SEALED

166093 166095 166161 166162 166331 166332 166333 166334 166336
166337 166338 166339 166340 166342 166344 166349 166350 166351
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RENEWAL FEES PAID

CAL — 7

147782 148415 148480 148648 148649 148734 149253 149642 149933
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154960 155060 155079 155080 155325 155638 155787 155855 155861
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DEL — 10

MAS — 18

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156603 156822 157075 157151 157239 157559 157566 157752 157775
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CESSATION OF PATENTS

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 153118 153120 153126 153128 153130 153132 153136 153137 153145
 153153 153154 153155 153156 153157 153158 153159 153160 153161
 153163 153165 153166 153167 153169 153170 153177 153179 153180
 153181 153182 153185 153186 153187 153188

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No 161518 granted to The Babcock & Wilcox Company for an invention relating to "a control system for an electro-pneumatic converter"

The patent ceased on the 22nd February 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 20th April 1991

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M S O Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the under Rule 69 of the Patents Rules, 1972 A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent

No 164517 granted to Mukund Kantilal Shah for an invention relating to "process for preparing concentrated green mango squash"

The patent ceased on the 8th April 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 20th April 1991

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M S O Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 10th October, 1991 under Rule 69 of the Patents Rules, 1972 A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice

(3)

Notice is hereby given that an application for restoration of Patent No 153972 dated the 24th August 1981 made by the Small Tools Manufacturing Company of India Limited on the 24th August 1990 and Notified in the Gazette of India, Part III Section 2 dated the 29th December 1990 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No 163684 dated the 25th September 1985 made by the Gajanand Vitthal Sathaye on the 28th August 1990 and Notified in the Gazette of India, Part III Section 2 dated the 29th December 1990 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No 164963 granted to Brian Craig Stobart for an invention relating to "a retaining assembly for retaining an article to be used in an emergency"

The patent ceased on the 7th July 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 21st April 1991

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M S O Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 10th October, 1991 under Rule 69 of the Patents Rules, 1972 A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice

(6)

Notice is hereby given that an application for restoration of Patent No 160393 dated the 28th April 1984 made by W S Insulators of India Limited on the 30th August 1990 and Notified in the Gazette of India, Part III Section 2 dated the 29th December 1990 has been allowed and the said patent restored.

(7)

Notice is hereby given that an application for restoration of Patent No. 153970 dated the 24th August 1981 made by the Small Tools Manufacturing Company of India Limited on the 24th August 1990 and Notified in the Gazette of India, Part III Section 2 dated the 29th December 1990 has been allowed and the said patent restored.

(8)

Notice is hereby given that an application for restoration of Patent No. 153971 dated the 24th August 1981 made by the Small Tools Manufacturing Company of India Limited on the 24th August 1991 and Notified in the Gazette of India, Part III Section 2 dated the 29th December 1990 has been allowed and the said patent restored.

(9)

Notice is hereby given that an application for restoration of Patent No. 160394 dated the 28th April 1984 made by W.S. Insulators of India Limited on the 30th August 1990 and Notified in the Gazette of India, Part III Section 2 dated the 29th December 1990 has been allowed and the said patent restored.

NAME INDEX OF APPLICATION FOR PATENTS IN RESPECT OF PATENT OFFICE, CALCUTTA & ITS BRANCHES FOR THE MONTH OF MARCH, 1991 (Nos. 188/Cal/91 to 246/Cal/91, 59/Bom/91 to 91/Bom/91, 176/Mas/91 to 252/Mas/91 and 170/Del/91 to 261/Del/91)

CALCUTTA

(188/Cal/91 to 246/Cal/91)

Name & Application No.

"A"

American Cyanamid Co.—242/Cal/91

Atochem North America, Inc.—245/Cal/91

"B"

Bardhan, R.—199/Cal/91

Boots G.A.M.—191/Cal/91

"C"

Cra Services Ltd.—214/Cal/91

"D"

Dallaire Industries Ltd.—190/Cal/91

Debgupta, R.K.—224/Cal/91

Dunne Miller Weston Ltd.—232/Cal/91

"E"

E.I. Du Pont De Nemours and Co.—202/Cal/91, 203/Cal/91, 204/Cal/91, 228/Cal/91, 237/Cal/91

Name & Application No.

E—Contd.

Eliacher, J.W.—225/Cal/91

Empresa Importadora, Exportadora Y Distribuidora Para La Ciencia Y La Tecnica.—240/Cal/91

Ensign-Bickford Co., The.—209/Cal/91, 233/Cal/91

"F"

Franz Gahler — 239/Cal/91

"G"

General Electric Co.—192/Cal/91, 193/Cal/91, 194/Cal/91, 196/Cal/91, 208/Cal/91, 216/Cal/91

Gupta, B.D.—195/Cal/91

"H"

Himont Incorporated.—243/Cal/91, 244/Cal/91

Hitachi Construction Machinery Co. Ltd.—197/Cal/91, 198/Cal/91.

Hitachi Ltd.—211/Cal/91, 218/Cal/91

Hitachi Techno Engineering Co. Ltd.—211/Cal/91

Hoechst Celanese Corporation.—207/Cal/91

"I"

Indian Jute Industries Research Association.—229/Cal/91.

International Control Automation Finance S.A.—226/Cal/91

"J"

Junkers, J.K.—238/Cal/91

"K"

KSB Aktiengesellschaft.—188/Cal/91

Kone Elevator GmbH.—230/Cal/91

"L"

Lanxide Technology Co.—Lp. 212/Cal/91

Liao Y.C.—219/Cal/91

"M"

Melaren, R.J.—189/Cal/91

Memminger-IRO GmbH.—221/Cal/91, 222/Cal/91

"N"

NGK Insulators, Ltd.—220/Cal/91, 236/Cal/91

N.V. Philips' Gloeilampenfabrieken.—205/Cal/91

Name & Application No.	Name & Application No.
"P"	"K"
PKA Pyrolyse Kraftanlagen GmbH.—234/Cal/91	Kirloskar Pneumatic Co. Ltd.—77/Bom/91, 78/Bom/91, 79/Bom/91
Patnaik, L.—235/Cal/91	Kotkar, S R.—61/Bom/91
"R"	Kowley, A.J.—64/Bom/91
Roy, S.—200/Cal/91	"L"
"S"	Lee, J C.—62/Bom/91
Samsung Electron Devices Co. Ltd.—215/Cal/91	"P"
Satake Engineering Co. Ltd.—223/Cal/91	Parekh, I.H.—80/Bom/91
Sen, P K.—227/Cal/91	"R"
Siemens Aktiengesellschaft.—246/Cal/91	Roymoulik, S K.—80/Bom/91
"T"	"S"
Texaco Development Corporation.—201/Cal/91, 231/Cal/91	Sapar, S S.—68/Bom/91
Thomson Consumer Electronics, Inc.—213/Cal/91, 241/Cal/91	Shukla, N.R. (Mr.)—87/Bom/91
Timothy, S.—217/Cal/91	Shukla, S N (Mrs.)—87/Bom/91
Trutzchler GmbH & Co. KG.—210/Cal/91	Sudarshan Chemical Industries Ltd.—67/Bom/91
"W"	"T"
Westinghouse Electric Corporation.—206/Cal/91	Trigon Metal Sections Pvt. Ltd. 74/Bom/91
"Z"	
Zamel, G.I.—189/Cal/91	

BOMBAY
(59/Bom/91 to 91/Bom/91)

Name & Application No.	MADRAS (176/Mas/91 to 252/Mas/91)	Name & Application No.
"A"		"A"
ADPEC Filter (India) Pvt. Ltd.—65/Bom/91	A.K. Technical Laboratory, Inc.—252/Mas/91	
"B"	Allied-Signal Inc.—220/Mas/91	"B"
Bhatnagar, J. (Dr.).—60/Bom/91	Balaguruswamy, V.—233/Mas/91	
Boots Pharmaceuticals Ltd.—91/Bom/91	Baliga Lighting Equipment Pvt. Ltd. (M/s).—242/Mas/91	
"C"	Balsubramanian, C.—192/Mas/91	"C"
Chiu, C M.—63/Bom/91	CTB INC.—205/Mas/91	
Consafe Science (India) Pvt. Ltd.—66/Bom/91	Carborundum Universal Ltd.—215/Mas/91	
"G"	Caterpillar Inc.—184/Mas/91, 185/Mas/91	
Gandhi, J.K.—76/Bom/91	Chandrasekharan, T.G.—222/Mas/91	
"H"	Comalco Aluminium Ltd.—190/Mas/91	
Hawkins Cookers Ltd.—59/Bom/91	Commonwealth Scientific & Industrial Research Organisation—190/Mas/91	"D"
Hindustan Lever Ltd.—69/Bom/91, 70/Bom/91, 71/Bom/91, 72/Bom/91, 73/Bom/91, 75/Bom/91, 81/Bom/91, 82/Bom/91, 83/Bom/91, 84/Bom/91, 85/Bom/91, 88/Bom/91, 89/Bom/91, 90/Bom/91	Daikin Industries Ltd.—216/Mas/91	
Junnarkar, A.N.—86/Bom/91	David Bentley Ltd.—179/Mas/91	
"I"	Dow Chemical Co., The.—220/Mas/91	

Name & Application No.	Name & Application No.
"E"	"N"
Economlight Ltd.—194/Mas/91	Nagabushanam, C.—193/Mas/91
Enichem S.P.A.—239/Mas/91	Natural Environment Research Council.—237/Mas/91, 238/Mas/91
Epilady International Inc.—234/Mas/91	"P"
"F"	Pillai, G.S.—243/Mas/91
FLO-CON Systems, Inc.—230/Mas/91	Plastic Bearings & Housing Australasia Pty. Ltd.—196/Mas/91
Fosroc International Ltd.—240/Mas/91	"R"
"G"	Rajan, R.S.—228/Mas/91
Ganeshan, V.—218/Mas/91	Rao, P.R.D.—200/Mas/91
Gaztech Corporation.—225/Mas/91	Rao, P.R.L.—217/Mas/91
Gerand Kessels.—221/Mas/91	Ravindranath, R.—181/Mas/91
Gupta, H. Sen (Mrs.).—248/Mas/91	Rhone-Poulenc Clinic.—211/Mas/91
"H"	"S"
Hampshire Advisory & Technical Services Ltd.—244/Mas/91	Sasikumar, P.K. (Dr.).—232/Mas/91
Henkel Corporation.—245/Mas/91	Sathali S.—208/Mas/91
Himont Incorporated.—197/Mas/91	Scimat Ltd.—250/Mas/91
Hoogovens Groep B.V.—195/Mas/91	Shell Internationale Research Maatschappij B.V.—224/Mas/91, 251/Mas/91
Hornig, A.—212/Mas/91	Shet, G.V.—227/Mas/91
"I"	Sintetica S.A.—247/Mas/91
Iten, Inc.—241/Mas/91	Somayaji, A.S.R.—180/Mas/91
Indian Space Research Organisation.—206/Mas/91, 207/Mas/91	Steiner GmbH. & Co. KG.—249/Mas/91
"J"	Sumeet Research & Holdings Ltd.—219/Mas/91
John Crane Inc.—198/Mas/91	"T"
"K"	Takemoto Yushi Kabushiki Kaisha.—203/Mas/91
Kabushiki Kaisha Toshiba.—187/Mas/91	Turbotect Ag.—183/Mas/91
"L"	"U"
Liquid Carbonic Corporation.—304/Mas/91	Uponor N.V.—213/Mas/91
"M"	Urecon Anstalt.—188/Mas/91
Mallya, U.K.—209/Mas/91	"V"
Maschinensfabrik Rieter Ag.—201/Mas/91, 202/Mas/91, 214/Mas/91, 236/Mas/91, 246/Mas/91	Varadaraj, S.—191/Mas/91
Mathad, R.M.—177/Mas/91	Vijayan, T.A.—229/Mas/91
Minnesota Mining & Mfg. Co.—189/Mas/91, 210/Mas/91, 226/Mas/91	"W"
Mitutoyo Mfg. Co. Ltd.—186/Mas/91	Widia (India) Ltd.—176/Mas/91, 199/Mas/91
Mobil Oil Corporation 178/Mas/91	"Z"
Modi, D.V.—231/Mas/91	Zachariah, G.—223/Mas/91
Monsanto Co.—235/Mas/91	
Montedipe Srl 239/Mas/91	
Muhammed, P.M.—182/Mas/91	

DELHI (170/Del/91 to 261/Del/91)	Name & Application No.	Name & Application No.
Name & Application No.		
"A"		
Aerospatiale Societe Nationale Industrielle.—260/Del/91		
Albright & Wilson Ltd.—204/Del/91, 253/Del/91		
All India Institute of Medical Sciences.—257/Del/91		
Arjomari Europe.—191/Del/91		
Armstrong World Industries, Inc.—215/Del/91		
Arora, S.—221/Del/91		"J"
Atochem.—179/Del/91		
"B"		
Badf Lacke+Farben Aktiengesellschaft.—193/Del/91		
B.E.F.S. Technologies S.A.—199/Del/91		
B.P. Chemicals Ltd.—219/Del/91		
Bergwerksverband GmbH.—240/Del/91		
"C"		
C.R. Bard, Inc.—242/Del/91		
Chief Controller, Research & Development.—210/Del/91, 211/Del/91		
Colgate-Palmolive Co.—227/Del/91, 228/Del/91, 254/Del/91		
Council of Scientific & Industrial Research.—187/Del/91, 188/Del/91, 189/Del/91, 190/Del/91, 243/Del/91, 244/Del/91, 245/Del/91 & 246/Del/91		
Credfeld Camtore Ltd.—259/Del/91		
"D"		
Desinsectisation Modrne.—197/Del/91		
Deutsche Automobilgesellschaft mbH.—235/Del/91		
Devi, P.—248/Del/91		"N"
"E"		
E.R. Squibb & Sons, Inc.—236/Del/91		
Emhart Industries, Inc.—194/Del/91 & 196/Del/91		
Exxon Chemical Patents, Inc.—178/Del/91, 255/Del/91 & 256/Del/91		
Exxon Research & Engg. Co.—223/Del/91		
"G"		
GEC Alsthom S.A.—252/Del/91		
George, E. (Mrs.).—171/Del/91		
Gillette Co., The.—200/Del/91, 201/Del/91 & 239/Del/91		"S"
Gould Inc.—229/Del/91		
Ground Engineering Co. Pvt. Ltd.—212/Del/91		
Gumber, V.—176/Del/91		
"H"		
Hanusaate Laboratories.—170/Del/91		
"T"		
Ide, R.D.—180/Del/91		
Imperial Chemical Industries PLC.—213/Del/91, 226/Del/91, 238/Del/91 & 261/Del/91		
Indian Council of Medical Research.—232/Del/91 & 233/Del/91		
Ingersoll-Rand Co.—241/Del/91		
"J"		
Jindal, D.P.—258/Del/91		
Johnson Corporation, The.—250/Del/91 & 251/Del/91		
Joseph, T.G.—171/Del/91		
"K"		
Kang, J.S.—186/Del/91		
Kinariwala, S.N.—231/Del/91		
Klyde, I.—222/Del/91		
"L"		
Literock International (Proprietary) Ltd.—214/Del/91		
Lubrizol Corporation, The.—249/Del/91		
"M"		
Mag Maschinen Und Apparatebau Gesellschaft m.b.H.—181/Del/91		
Mishra, A.C.—198/Del/91		
Mobil Solar Energy Corporation.—177/Del/91		
Motorola Inc.—172/Del/91		
"N"		
Paul Wurth S.A.—173/Del/91		
Pichette, C.—184/Del/91		
Powcon Incorporated.—218/Del/91		
Procter & Gamble Co., The.—174/Del/91, 175/Del/91, 203/Del/91, 220/Del/91 & 237/Del/91		
Proteus Molecular Design Ltd.—195/Del/91		
"R"		
Rohm & Haas Co.—234/Del/91		
"S"		
S.A. Wow Co.—202/Del/91		
Sharma, G.S.—217/Del/91		
Sharma, S.—216/Del/91		

Name & Application No.

S—Contd.

**Shell Internationale Research Maatschappij B.V.—183/Del/91,
224/Del/91 & 225/Del/91**

Societe Nationale Elf Aquitaine.—209/Del/91

Standard Oil Co., The.—230/Del/91

Synthelabo.—208/Del/91

"U"

UTDC, Inc.—205/Del/91, 206/Del/91 & 207/Del/91

"V"

Veitscher Magnesitwerke-Aktiengesellschaft.—192/Del/91

Verma, A.K.—258/Del/91

"W"

W.R. Grace & Co. Conn.—182/Del/91

Warner Lambert Co.—185/Del/91

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specifica-

tion and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना ही जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्माण की तिथि से 4 महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अप्यवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संरक्षण में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक में मुद्रित प्रसिद्धि, भारत सरकार द्वारा दियो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होती है। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाए तो अतिरिक्त ढाक छाँच)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रलिप्त विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (वित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकिस अवधारा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अवायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित वित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु० है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

CLASS : 108-C3.
Int. Cl. : C 21 c 1/02.

168991

DESULFURISATION OF HOT METAL SUCH AS PIG IRON OR STEEL.

Applicant & Inventor : MR. HARI DATT NAITHANI, OF D/24, KOELNAGAR, P.O. ROURKELA-14, ORISSA, PIN CODE 769014, INDIA.

Application No. 130/Cal/1987, filed on 17th February, 1987

Complete Specification left on 17th November, 1988.

Post-dated to 17th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

14 Claims

An improved method of desulphurisation of hot metal such as pig iron or steel, which comprises subjecting the molten metal to a step of desulphurisation by injecting a stream of inert gas loaded with a desulphurisation agent made of lime powder, aluminum powder and sodium nitrate powder.

Compl. Specn. 13 Pages.
Provl. Specn. 6 Pages.

Drg. Nil.
Drg. Nil.

CLASS : 206 E. 168992
Int. Cl. : H 04 L 19/00.

APPARATUS FOR CONTROLLING THE START OF DATA TRANSMISSION.

Applicant: OKI ELECTRIC INDUSTRY CO LTD., OF 7-12, TORANOMO 1-CHOME, MINATO-KU, TOKYO, JAPAN.

Inventors: (1) HARUTOMO NARITA, (2) YOUSUKE SAKAIDA.

Application No. 229/Cal/1987, filed on 24th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

1 Claim

An apparatus for controlling a ping-pong transmission on a transmission line controlled and connected by a CPU, said apparatus comprising:

- (a) an equalizer means for equalizing a signal wave from on the transmission line;
- (b) a means connected to said equalizer means for extracting received data from said equalized signal wave from

and for transmitting the extracted received data to said CPU;

- (c) a means connected to said equalizer means for detecting frames from said equalized signal wave from so as to thereby transmit a first timing signal corresponding to said detected frame;
- (d) a controllable switching means for alternatively selecting said first timing signal and a second timing signal applied externally;
- (e) a means for generating a third timing signal in conformity with said first or second signal selected by said switching means;
- (f) a means for generating a signal to be transmitted onto the transmission line in conformity with said third timing signal;
- (g) a controllable gate means provided between said means for generating a signal to be transmitted and the transmission line for electrically connecting and disconnecting them together;
- (h) a means controllable from said CPU for controlling said gate means;
- (i) a means for monitoring an output from said equalizer means to thereby control, upon detecting a prescribed signal, said means for controlling said gate means for a prescribed period of time, and for separating said means for generating a signal to be transmitted and the transmission line from each other;
- (j) a means for selectively connecting said switching means to said means for controlling operation of said gate means and to said CPU for operating, based upon an instruction from one of said means for controlling said gate means and said CPU, said switching means to switch said first timing signal with said second timing signal.

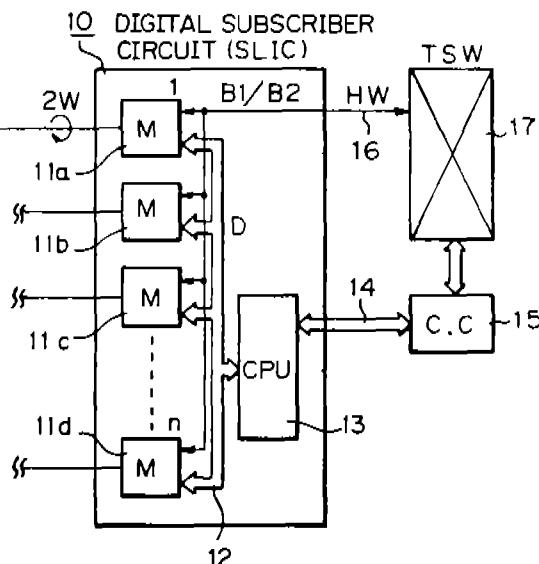
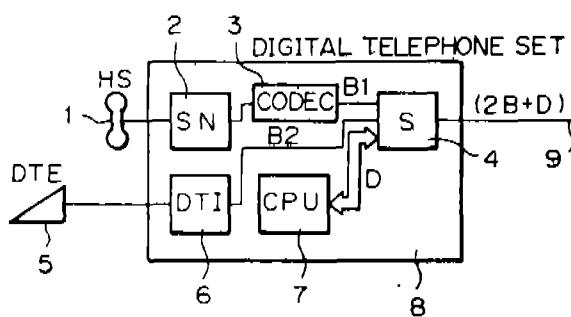


Fig. 1

CLASS : 144 E₄
Int. Cl. : C 09 b 67/08; C 09 c 1/62.

168993

A METHOD FOR THE PREPARATION OF A PIGMENT CONSISTING ESSENTIALLY OF RUTILE TiO₂ PARTICLES BEARING COATINGS OF ALUMINA OR ALUMINA-SILICA.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, U.S.A.

Inventor : HOWARD WAYNE JACOBSON.

Application No. 327/Cal/1987, filed on 24th April, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A method for the preparation of a pigment consisting essentially of rutile TiO₂ particles bearing coatings of alumina or alumina-silica, the particle surfaces having associated therewith 0.05-2%, by weight of the TiO₂ of cerium cations and an associated quantity of borate anions or polyfunctional organic acid anions having a solubility in water of at least 10 grams per liter at 25°C, the method comprising :

- (a) heating an aqueous slurry of 200-450 grams per liter of TiO₂ to 45-70°C,
- (b) adding sufficient cerium ions to provide a cerium ion concentration of about 0.05-2%, based on the weight of the TiO₂, and sufficient mineral acid to maintain the cerium salt in solution,
- (c) adding from 100-300 percent, based on the weight of the cerium cation, of polyfunctional organic acid anions or borate anions to precipitate cerium on the surface of the TiO₂ particles in association with the anion, and
- (d) adding enough aluminate to the slurry to precipitate and to provide an alumina concentration of 2-8 percent, based on the weight of the TiO₂, while maintaining the pH of the slurry at 6-9.

Compl. Specn. 11 Pages.

Dry. NIL.

CLASS : 144-E₄.
Int. Cl. : C 09 c 1/36, 1/62.

168994

A PROCESS FOR PREPARING TiO₂ PARTICLES BEARING COATINGS OF BORIA-MODIFIED SILICA.

Applicant : E.I.DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, U.S.A.

Inventor : HOWARD WAYNE JACOBSON.

Application No. 328/Cal/1987, filed on 24th April, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A process for preparing TiO₂ particles bearing coatings of boria-modified silica, comprising :

- (a) forming an aqueous slurry of rutile TiO₂ at a temperature from 65°C to 90°C;
- (b) adjusting pH of the slurry to the range of 7-10.5;
- (c) adding a solution comprising Na₂SiO₃ and B₂O₃, under conditions which maintain silicate and boria ions in solution;
- (d) gradually lowering pH of the slurry to 7.5-8.5 by addition of acid, thereby depositing a coating of silica and boria consisting essentially of from 60-98 percent by weight SiO₂ and 0.5-30 percent by weight B₂O₃ based on coating weight on said TiO₂ particles, and
- (e) curing the resulting coated pigment at a temperature from 65°C to 90°C for a period of at least 15 minutes.

Compl. Specn. 14 Pages.

Dry. NIL.

CLASS : 206E.
Int. Cl. : G 05 b 13/00.

168995

A SELF TUNING SYSTEM FOR PROCESS CONTROL.

Applicant : INTERNATIONAL CONTROL AUTOMATION FINANCE S.A., OF VILLE DE LUXEMBOURG, 16 RUE DES BAINS, LUXEMBOURG.

Inventors : (1) JOHN DAVID LANE & (2) THOMAS JOSEPH SCHEIB.

Application No. 573/Cal/1987, filed on 27th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A self-tuning system for process control having at least one measured parameter comprising :

a modular parameter estimator for receiving the measured parameter and for calculating an estimated parameter using an estimation algorithm;

a modular PID parameter converter connected to said estimator for applying a proportional plus integral plus derivative algorithm to the estimated parameter to produce a PID control;

a PID controller connected to said PID parameter converter for controlling the process;

a modular IMC parameter converter containing an internal model algorithm and connected to the estimator for applying the internal model algorithm to the estimated parameter to generate an internal model control signal;

smart gain scheduler means connected to the modular IMC parameter converter for receiving a feed forward index and the internal model control signal to generate a gain scheduled control signal, said gain scheduler means including a self tuning feature which utilizes a correction equation;

an IMC controller connected to said smart gain scheduler for receiving the gain scheduled control signal for controlling the process;

a modular user defined parameter converter connected to the estimator for receiving the estimated parameter and for generating an estimated parameter control signal; and

a user defined controller connected to said user defined parameter converter for receiving the user defined control signal to control the process.

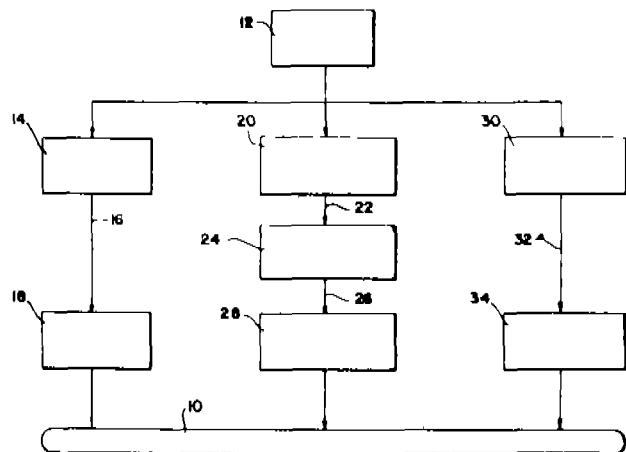


Fig. 1

Compl. Specn. 26 Pages.

Draws. 8 Sheets.

CLASS : 190A.

168996

Int. Cl. : E 02 b 9/00.

A HYDROELECTRIC POWER INSTALLATION

Applicant & Inventor: HENRY K. OBERMEYER, 36 WICK-HAMS FANCY RIVERS EDGE ROAD, COLLINSVILLE, CONNECTICUT 06022, U.S.A.

Application No. 605/Cal/1987, filed on 4th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta

15 Claims

A hydroelectric power installation comprising :

a vertical tower or dam structure situated in a water course between a head water level and tail water level and having a submerged base with a discharge conduit through which water passes due to the pressure head between the two levels, the structure also having a generally vertical service track extending from the entrance of the discharge conduit at the submerged base upwardly to an elevated servicing point on the structure above the head water level, and

a hydraulic turbine generator and associated draft tube movable as a unit in the service track between the elevated head position above the head water level and a submerged, operating position in which the discharge end of the draft tube and the entrance of the discharge conduit are brought into adjacent and fluid-communicating relationship to permit power generation from water flowing through the turbine generator set and draft tube into the entrance of the discharge conduit.

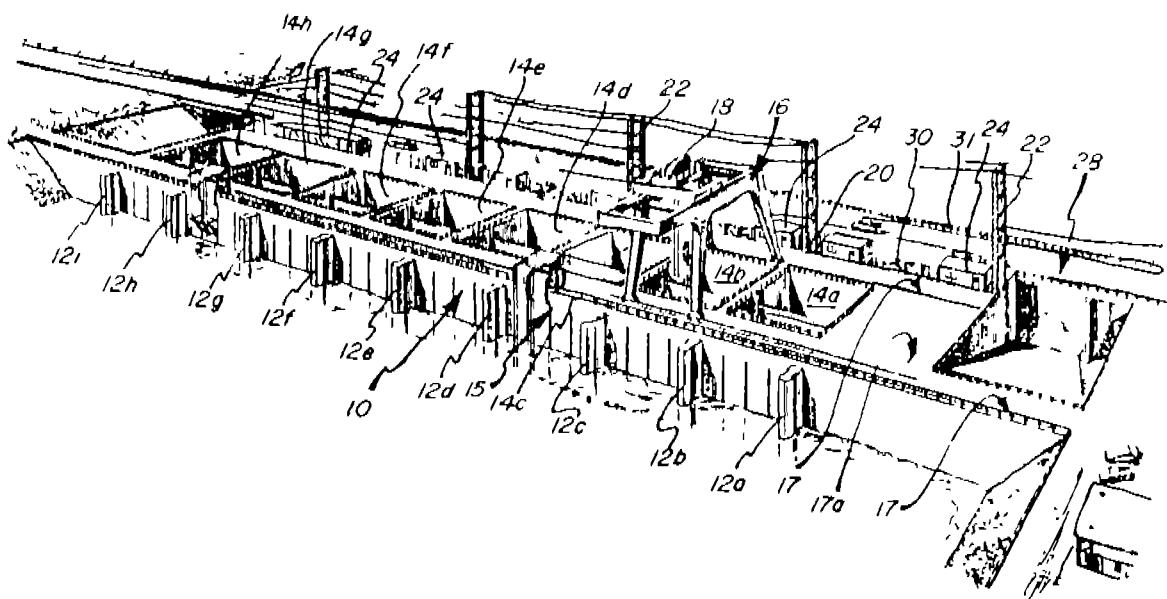


Fig. 1

Application No. 620/Cal/1987, filed on 10th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

An S-cam member (10) for expanding internal shoe brakes (10) of the type comprising a pair of pivotably mounted brake shoes (20) located interiorly of a brake drum (12), each of said brake shoes carrying a cam follower (42) urged into engagement with a cam member working surface (116), rotation of said cam member in a first direction of rotation (112) from the fully disengaged condition of said brake forcing said brake shoes radially outwardly relative to said brake drum and rotation in the opposite direction of rotation (114) causing radial return of said brake shoes relative to said brake drum, each of said working surfaces comprising a first portion (118) engaged by said followers in the fully disengaged condition of said S-cam member and a second portion (120) extending from said first portion in substantially said opposite direction of rotation, said second portion of a substantially involute spiral shape in cross-section to provide a substantially constant first rate of lift, said S-cam characterized by:

a third portion (122) of each of said working surfaces extending in substantially said opposite direction of rotation from said second portion, said third portion defined by a generally straight radially outwardly extending line in cross-section having a second rate of lift substantially greater than said first rate of lift.

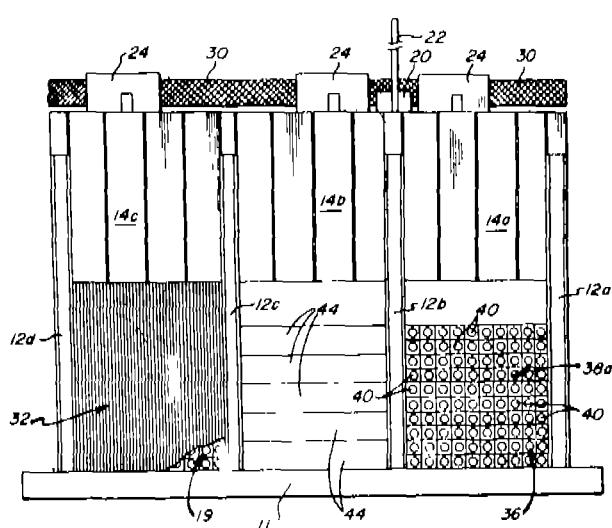


Fig. 1B

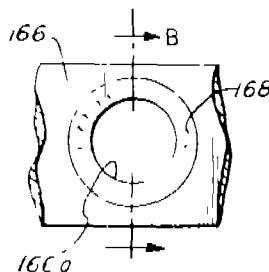


Fig. 6A
Compl. Specn. 27 Pages.

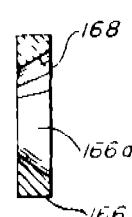


Fig. 6B
Drgs. 4 Sheets.

CLASS : 24-B
Int. Cl. : F 16 d 53/00.

168997

S-CAM FOR DRUM BRAKE.

Applicant : EATON CORPORATION, AT 1111 SUPERIOR AVENUE, CLEVELAND, OHIO 44114, U.S.A.

Inventor : GEORGE PAUL MATHEWS.

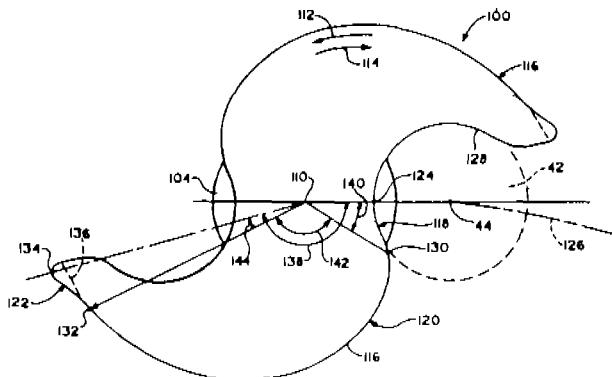
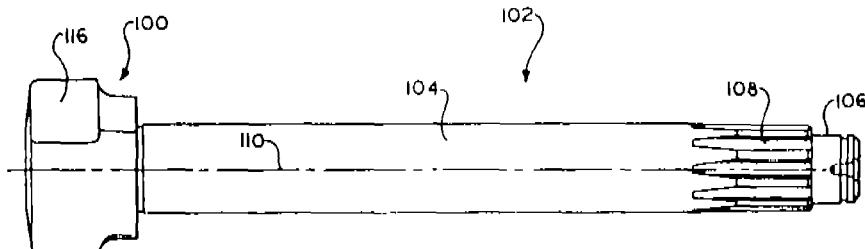


Fig. 2



Compl. Specn. 13 Pages.

Drgs. 3 Sheets

CLASS : 15-D.
Int. Cl. : F 16 c 32/06.

168998

TIRUST HYDROSTATIC BEARING DEVICE FOR USE IN AXIAL PISTON MACHINE.

Applicants : (1) HITACHI LTD., OF 6, KANDA SURGADAI 4-CHOME CHIYODA-KU, TOKYO, JAPAN; AND (2) HITACHI CONSTRUCTION MACHINERY CO LTD., OF 6-2, OITEMACHI-2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) YOSHIMICHI AKASAKA, (2) ICHIRO NAKAMURA, (3) KEN ICHIRYU, (4) EIJI KOMETANI & (5) YASUHARU GOTOH.

Application No. 664/Cal/1987, filed on 24th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

11 Claims

A thrust hydrostatic bearing device for use in an axial piston machine including a housing cover, a cylinder block having a plurality of cylinder holes, and pistons movable back and forth in corresponding cylinder holes and fixed to piston rods, said pistons being rotatably mounted in such a manner that they are inclined with respect to a drive shaft, characterized by incorporating a bearing sleeve fitted into said housing cover for rotatably supporting said drive shaft through a bearing said bearing sleeve having a plurality of hydrostatic pads disposed at locations which are symmetrical with respect to an axis lying in a cross-section perpendicular to said drive shaft.

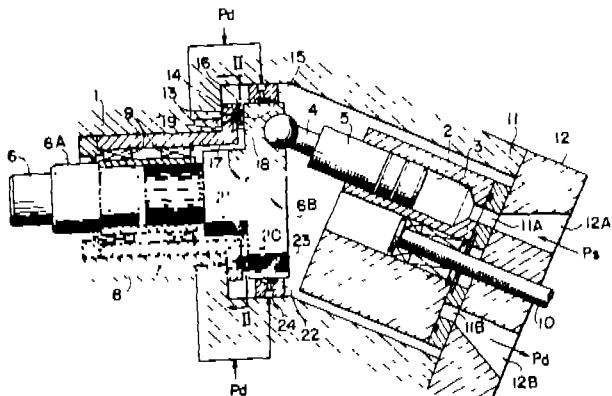


Fig. 1

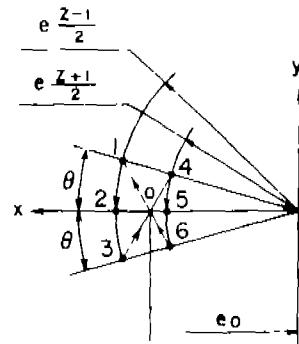


Fig. 4

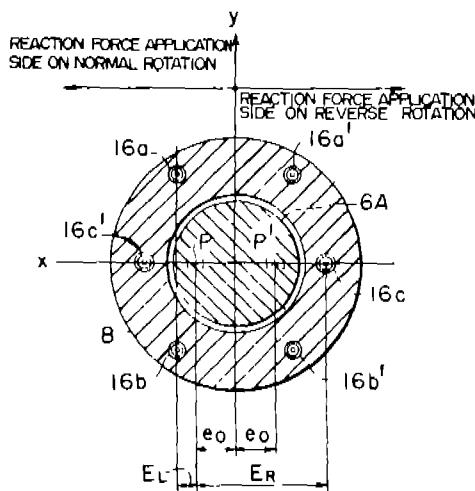


Fig. 5

Compl. Specn. 32 Pages.

Drgs. 7 Sheets

3—G—187 GI/91

CLASS : 2A.
Int. Cl. : G 09 f 11/00.

168999

A LIGHT-REFLECTIVE DISPLAY ELEMENT AND DISPLAY DEVICE COMPRISING SAID DISPLAY ELEMENT

Applicant & Inventor : RAD HASSAN DABB AJ, OF FLAT 4, 3 WESTBOURNE CRESCENT, LONDON W2 3 DB, ENGLAND.

Application No. 846/Cal/1987, filed on 29th October, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A light-reflective display element having a plurality of sets of two or more vanes arranged one behind the other with a forward surface of each set visible from the front, the vanes within each set lying in closely adjacent parallel planes, the sets being also parallel but displaced one behind the other; individual driving means for each group formed by corresponding vanes in each set, except the foremost, so that the vane forward surfaces are selectively viewable from the front; each group of vanes being coloured with respective plain colour such as herein described different from that of the other groups.

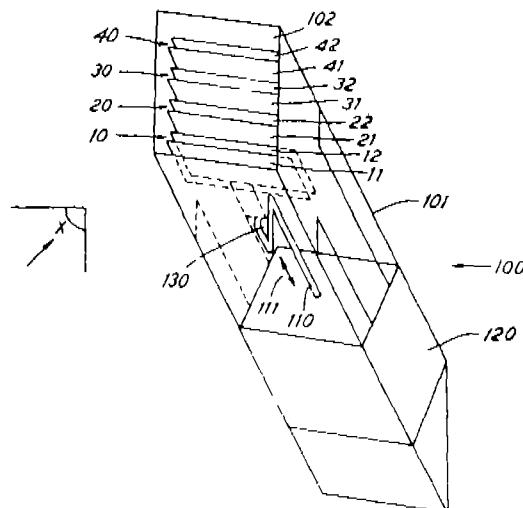


Fig. 1

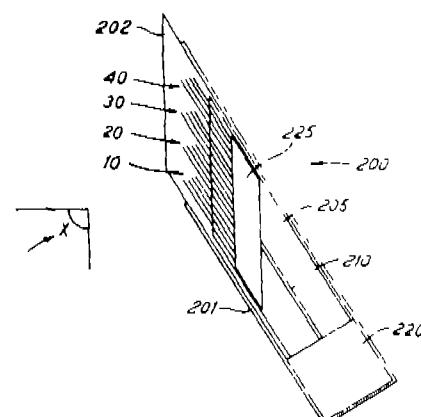


Fig. 2

Compl. Specn. 25 Pages

Drgs. 4 Sheets

CLASS : 69-Q.
Int. Cl. : H 01 h 73/00.

169000

CIRCUIT BREAKER WITH MAGNETIC SHUNT HOLD-BACK CIRCUIT.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION,
OF WESTINGHOUSE BUILDING, GATEWAY CENTER,
PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF
AMERICA

Inventors: (1) KURT ALBERT GRUNERT, (2) STEPHEN ALBERT MRENNA, (3) JAMES PAUL ELLSWORTH.

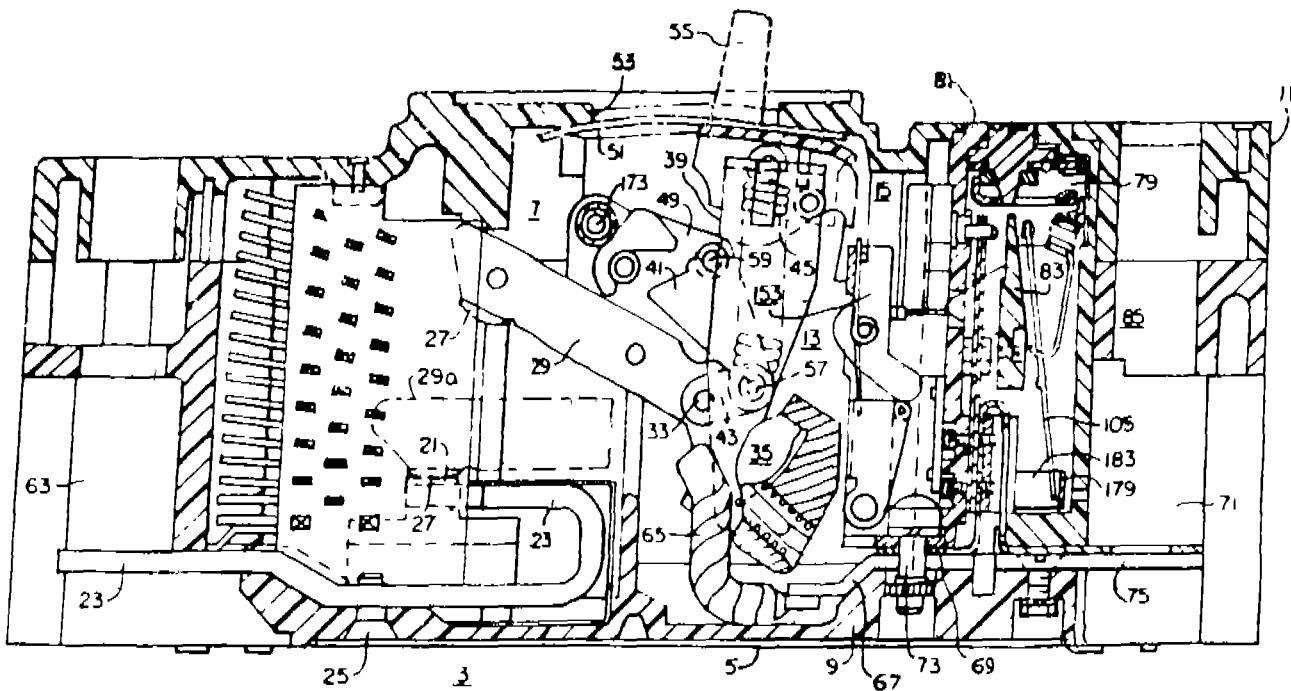
Application No. 988/Cal/1987, filed on 21st December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A circuit breaker with a magnetic shunt hold-back circuit, comprising a circuit breaker mechanism having separable contacts and a releasable member movable to an unlatched position from a latched position to effect opening of the contacts, a latch lever

movable between latched and unlatched positions of the releasable member and being biased in the latched position, a trip bar movable to unlatch the latch lever and being biased in the latched position, characterised by a trip unit comprising a stationary magnetic structure for each conductor of the distribution system comprising a coil and first core assembly and an armature, lever means associated with each stationary magnetic structure for moving the trip bar to the unlatched position, the lever means comprising the armature and movable toward the core in response to abnormal currents in at least one of the conductors, a hold-back bracket comprising a first leg extending from one end of the core and a second leg extending from the other end of the core in the direction of movement of the armature and an opposite sides of the armature so as to increase the magnetic flux density between the core and the armature the core being a U-shaped member having spaced first U-legs with the armature spanning and being adapted to move toward the U-legs in response to a predetermined overcurrent condition, the hold-back bracket being mounted on the core with second U-legs of the hold-back bracket extending along and beyond the ends thereof and beyond the armature, with each said second U-leg having an inturned flange adjacent to the armature and which inturned flanges extend toward each other so as to cause magnetic field lines to flow through the flanged and the armature.



Compl. Specn. 16 Pages.

Dry. 3 Sheets.

CLASS : 207.
Int. Cl. : B 27 k 3/00.

169001

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

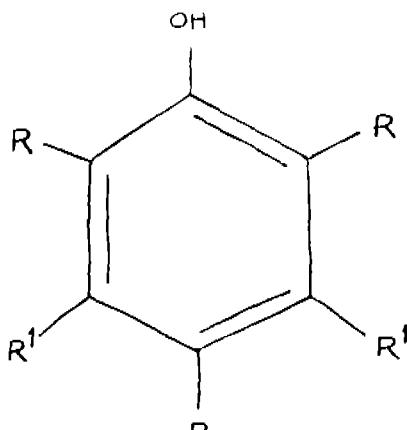
A METHOD OF TREATING WOOD TO RENDER IT LESS SUSCEPTIBLE TO FUNGAL AND BACTERIAL DETERIORATION.

Applicant & Inventor: THEODORE F. COOKE, 287 WEED AVENUE, STAMFORD, CONNECTICUT 06902, U.S.A.

Application No. 49/Cal/1987, filed on 15th January, 1987.

14 Claims

A method of treating wood to render it durable less susceptible to rotting the process comprising substantially completely impregnating said wood with an aqueous, alkaline solution of a compound having the formula I as shown in the accompanying drawings:



Wherein each R is a blocking group substantially non-reactive with a phenol group under alkaline condition with the proviso that at least one R group is an alkylol group and each R', individually, is hydrogen or R, and recovering the resultant treated wood, said impregnation being effected under vacuum conditions of at least 10 inches of mercury and under application of pressure of at least 100 psi, and drying the treated wood at a temperature of between 80-250°F for time varying between 30 minutes to 30 days.

Compl. Specn. 17 Pages.

Dry. 1 Sheet.

CLASS : 139-C.
Int. Cl. : C 01 b 7/01.

169002

PROCESS FOR PRODUCING CHLORINE BY OXIDIZING AN OFFGAS BYPRODUCED IN A REACTION STEP.

Applicant: MITSUI TOATSU CHEMICALS, INCORPORATED, OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors: (1) HIROYUKI ITOH, (2) YOSHITSUGU KONO, (3) MASANOBU AJIOKA, (4) SHINJI TAKENAKA, (5) MASAFUMI KATAITA.

Application No. 122/Cal/1987, filed on 12th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A process for producing chlorine by oxidizing an offgas by-produced in a reaction step such as chlorination and phosgenation of an organic compound and containing hydrogen chloride therein, which comprises the following steps:

(1) subjecting the hydrogen chloride present in the byproduced offgas to an oxidation reaction at a temperature of 300-500°C in the presence of a chromic oxide catalyst such as hereinbefore described by using oxygen in an amount of 0.25 mole or more per mole of the hydrogen chloride contained in the offgas;

(2) cooling said reaction mixture, which primarily comprises chlorine, water, unreacted hydrogen chloride, oxygen and vaporized chromium, rapidly and then washing same with water, thereby recovering the chromium as an aqueous solution;

(3) washing the remaining portion of the resultant gas again with water to absorb the unreacted hydrogen chloride in the water, so that the unreacted hydrogen chloride is recovered as an aqueous hydrogen chloride solution;

(4) washing the still remaining portion of the resultant gas with sulfuric acid to remove water therefrom;

(5) compressing and cooling the still remaining portion of the resultant gas, said portion comprising chlorine primarily and containing unreacted oxygen, whereby the chlorine is separated as liquefied chlorine from the still remaining portion of the resultant gas; and

(6) recycling a portion or the entire portion of the remaining gas, which has been obtained after the separation of the liquefied chlorine and is composed primarily of oxygen, as a circulating gas to the oxidation step 1).

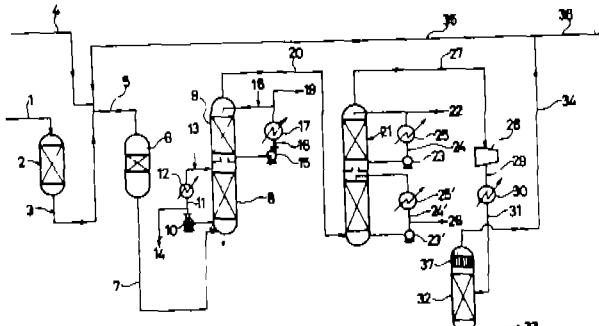


Fig. 1

Compl. Specn. 45 Pages.

Dry. 1 Sheet.

CLASS : 32-E, 152-E
Int. Cl. : C 08 f 10/02, 10/14, C 08 l 23/00

169003

AN IMPROVED PROCESS FOR THE PREPARATION OF HIGH MOLECULAR WEIGHT POLYMERS OF ALPHA-OLEFINS.

Applicant: DU PONT CANADA INC., OF BOX 2200 STREETSVILLE, MISSISSAUGA, ONTARIO, CANADA L5M 2H3.

Inventors: (1) VACLAV GEORGE ZBORIL, (2) DAVID JOHN MITCHELL.

Application No. 255/Cal/1987, filed on 31st March, 1987.

(Convention dated 25th April, 1986; No. 86. 10126; U.K.)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

11 Claims

A solution polymerization process for the preparation of high molecular weight polymers of alpha-olefins viz polymers of ethylene with or without C3—C12 hydrocarbon alpha-olefins, said process comprising feeding monomer ethylene with or without at least one C3—C12 hydrocarbon alpha-olefin, a co-ordination catalyst and inert hydrocarbon solvent to a reactor, said catalyst being a titanium-based and/or vanadium-based coordination catalyst polymerizing said monomer at a temperature of up to

320°C and a pressure of less than 25 MPa, deactivating the catalyst by admixing the reactor solution so obtained with at least one trialkanolamine deactivating agent of the formula N(ROH)₂, where R is isopropyl and R' is alkyl of 2-4 carbon atoms, separating the hydrocarbon solvent and other volatile matter from the resultant solution and recovering a composition of said high molecular weight polymer, the amount of deactivating agent being not more than 2.5 moles of deactivating agent per mole of halogen plus alkyl radicals in the coordination catalyst.

Compl. Specn. 27 Pages.

Drgs. NIL.

CLASS : 146-C.
Int. Cl. : G 01 d 5/00; G 01 h 1/00.

169004

DEVICE FOR DETECTING AND LOCALIZING FAULTS IN ELECTRICAL INSTALLATIONS.

Applicant: SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000 MUNCHEN 2, WEST GERMANY.

Inventors: (1) PETER GRUNEWALD, (2) KURT FORK, (3) JURGEN WEIDNER, (4) REINHOLD KOZIEL.

Application No. 279/Cal/1987, filed on 7th April, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

A device for detecting and localizing faults in a power station block comprising components, comprising at least three operational measuring points for high-frequency output coupling; operational measuring devices in the form of ultrasonic pickups;

and the following means:

means for performing partial discharge measurements and high-frequency measurements at least at one of said operational measuring points and optionally in all phases;

means for selectively comparing the measurement values with each other and with calibration signals;

means for drawing conclusions from the measurements regarding the location and the type of the fault;

means for selectively continuously and periodically performing the measurements at said at least three measuring points while the installation is in operation;

means for simulating the electrical installation in a computer as a high-frequency network, while simulating fault with the signals originating therefrom at the measuring points;

means for comparing any measurement values which indicate fault with the simulated signal values for different faults and fault locations; and

means for determining the type and location of the fault from the simulated signal values which best agree with the measurement values and from the corresponding simulated fault.

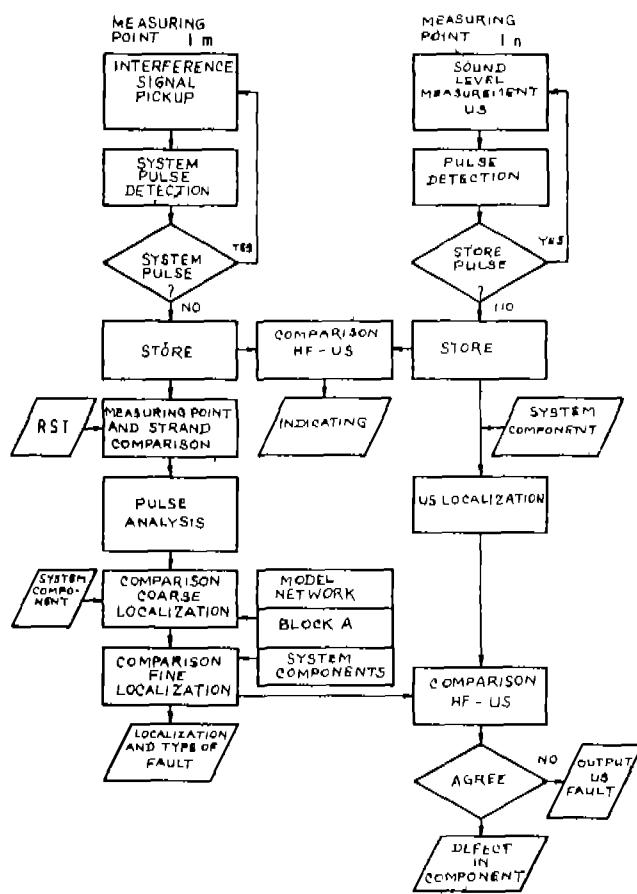


Fig. 3

Compl. Specn. 19 Pages.

Drgs. 4 Sheets.

CLASS : 40-E.
Int. Cl. : C 01 b 3/00; C 07 c 7/00.

169005

A PROCESS FOR THE PRODUCTION OF GASEOUS MIXTURES COMPRISING H₂ + CO BY THE PARTIAL OXIDATION OF A FUEL FEEDSTOCK.

Applicant: TEXACO DEVELOPMENT CORPORATION, 2000 WESTCHESTER AVENUE, WHITE PLAINS, NEW YORK 10650, U.S.A.

Inventor: MITRI SALIM NAJAR.

Application No. 412/Cal/1987, filed on 25th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

16 Claims

A process for the production of gaseous mixtures comprising H₂ + CO by the partial oxidation of a fuel feedstock comprising sulfur-containing heavy liquid hydrocarbonaceous fuel and/or petroleum coke, said fuels having nickel-and iron-containing ashes, or mixtures thereof; wherein said feedstock includes a minimum of 0.5 wt. % of sulfur; and said ashes include a minimum of 0.5 ppm nickel, a minimum of 0.5 ppm iron, and a minimum of 2.0 ppm of silicon; said process comprising:

(I) preparing the feedstock for reaction by mixing together said fuel feedstock with an iron-containing additive comprising iron and/or iron components to produce a mixture in which the weight ratio of said iron-containing additive to said ashes in said fuel feedstock is in a range of from 0.5 to 10.0, and the weight ratio of iron to nickel is greater than 0.33;

(2) reacting said mixture from step (1) at a temperature in a range of from 1200°C to 1650°C (2200°F to 3000°F) and a pressure in the range of from 5×10^3 to 250×10^3 Pa (5 to 250 atmospheres) in a free-flow refractory-lined partial oxidation reaction zone with a gas which contains free oxygen in the presence of a temperature moderator and in a reducing atmosphere to produce a hot raw effluent gas stream comprising H₂ + CO and entrained molten slag; whereby said iron-containing additive combines in said reaction zone with at least a portion of said nickel and iron constituents and sulfur found in the feedstock to produce said molten slag; the atomic ratio of said free oxygen to carbon in the fuel is in the range of 0.6 to 1.6 and

(3) separating non-gaseous materials containing substantially no Ni₃S₂ from said hot raw effluent gas stream

Compl. Specn. 23 Pages

Dr. NIL.

CLASS : 206-D 169006
Int. Cl : G 10 k 11/00; H 04 r 29/00.

AN ULTRASONIC INSPECTION APPARATUS.

Applicant: WESTINGHOUSE ELECTRIC CORPORATION,
OF WESTINGHOUSE BUILDING, GATEWAY CENTER,
PITTSBURGH, PENNSYLVANIA 15222, U.S.A.

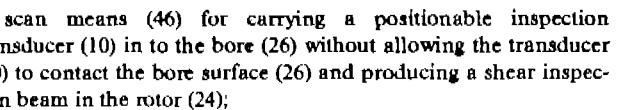
Inventors: (1) LAWRENCE DARRELL NOTTINGHAM, (2) THOMAS ELLSWORTH MICHAELS, (3) JENNIFER EMMONS MICHAELS.

Application No. 448/Cal/1987, filed on 9th June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta

51 Claims

An ultrasonic inspection apparatus for a rotor (24) having a bore (26), characterized by:



positioning means (108) for holding the scan means substantially in the centre of the bore;

a drive assembly (54) coupled to said scan means and coupling linear and rotational motion to the scan means;

drive means (52), coupled to said drive assembly, for providing the linear and either continuous or discontinuous rotational motion to said drive assembly; and

control means coupled to the transducer (10) and said drive means (52), for controlling the movements of the transducer (10) and the motions provided by said drive mean (52) and providing a position of the transducer (10) as an output

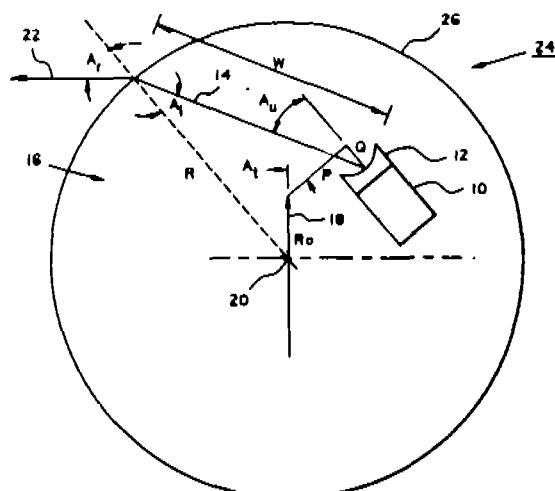


Fig. 1

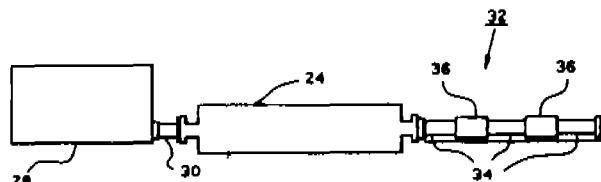


Fig. 7

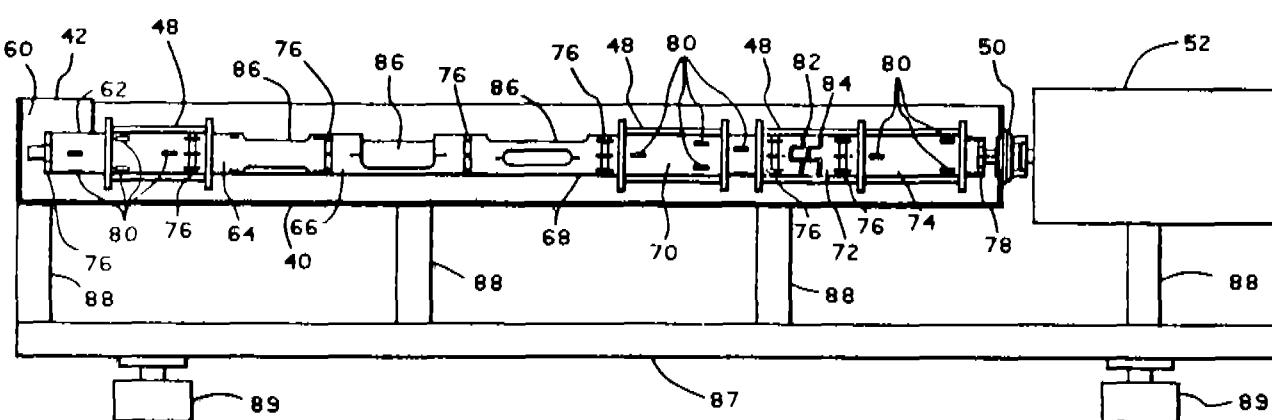


Fig. 4

CLASS : 203.
Int. Cl. : B 65 h 23/185.

169007

APPARATUS FOR CONTINUOUSLY DRAWING A WEB OF MATERIAL AND A PROCESS FOR CONTINUOUSLY DRAWING A WEB OF MATERIAL USING SAID APPARATUS.

Applicant: E.I. DU PONT DE NEMOURS AND COMPANY,
AT WILMINGTON, DELAWARE, U.S.A.

Inventors: (1) WILLIAM JOHN HOMMES, (2) JOHN JOSEPH KEEGAN, JR.

Application No. 487/Cal/1987, filed on 22nd June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

Apparatus for continuously drawing a web of material by propelling individual carriages having tenter clips attached thereto at predetermined speeds in endless elongated paths defined by a pair of carriage guide tracks positioned opposite each other, using a linear motor, such linear motor comprising :

a primary positioned adjacent each track, each primary including a plurality of groups of coils with the groups of coils in one primary sized to match opposed groups of coils in the other

primary and with each of the opposed groups of coils being electrically joined and defining a single control zone;

a synchronous secondary attached to each of the carriages;

means for simultaneously developing matching waveforms to the opposed groups of coils in each control zone, the waveforms for a control zone having specific predetermined frequency and phase characteristics for developing matching travelling electromagnetic waves in the opposed groups of coils in said control zone;

whereby the synchronous secondaries attached to the carriages adjacent a control zone synchronously engage the matching travelling electromagnetic waves developed in the opposed groups of coils in the control zone to propel the carriages in opposed pairs in symmetry through said control zone;

said apparatus including tenter frame which comprises :

a pair of endless tracks each having first portions defining a transport section for transporting said web without stretching, second portions defining a section for stretching said web, and third portions defining a section for stabilizing said web;

said tracks also having fourth portions not associated with said web which connect the third portions to the first portions of the tracks;

a plurality of carriages guided by the tracks, said carriages having tenter clips attached thereto for gripping the edges of the web during its movement through the first, second and third portions of the tenter frame.

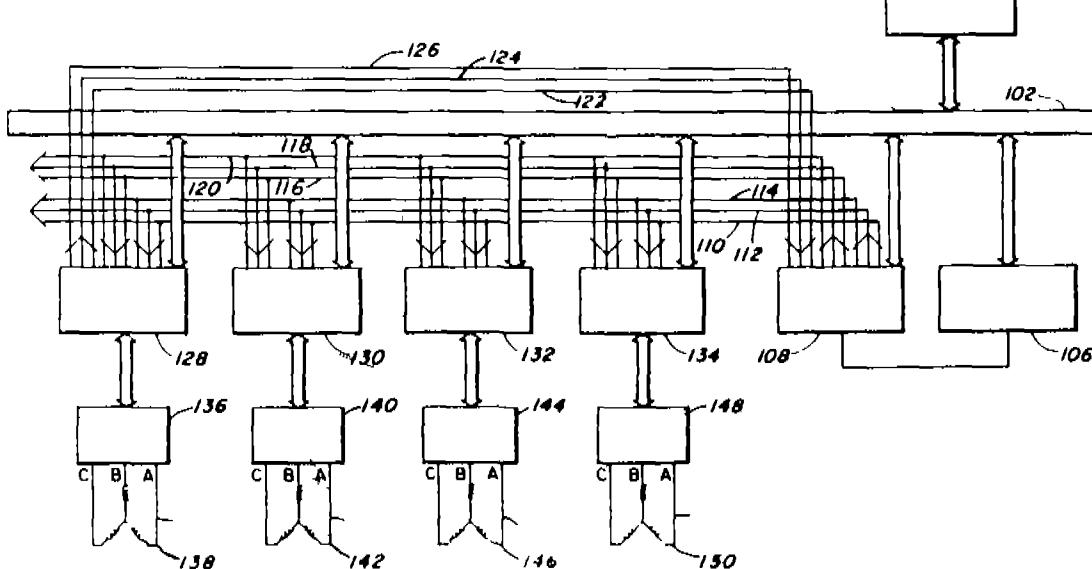


Fig. 1

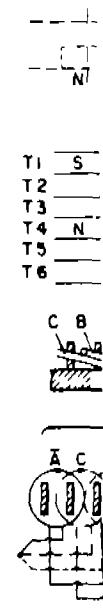


Fig. 2

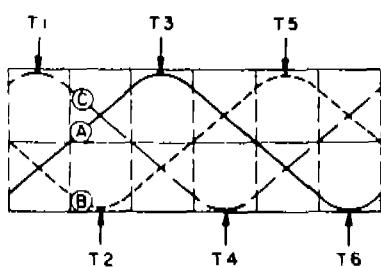


Fig. 3

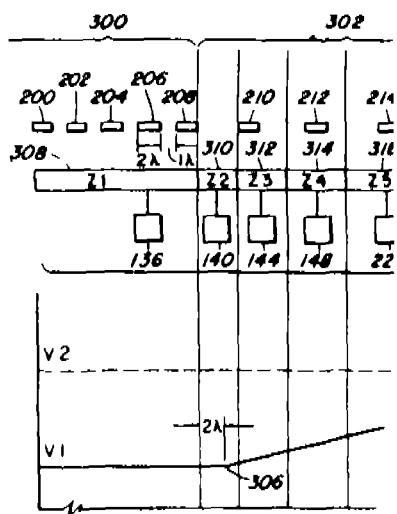


Fig. 4

Compl. Specn. 67 Pages.

Drgs. 5 Sheets.

CLASS : 169008
 Int. Cl. : H 01 j 11/00.

ELECTRODELESS FLUORESCENT LIGHTING SYSTEM.

Applicant: INTENT PATENTS A.G., 7 STOREYS GATE,
 WESTMINSTER, LONDON, SW1P3AT, U.K.

Inventor: JACQUES MARIE HANLET.

Application No. 489/Cal/1987, filed on 22nd June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

26 Claims

An electrodeless fluorescent lighting system comprising :

(a) excitation means for generating (1) an enclosed magnetic field, (2) an induced electric field substantially parallel and in the same direction as said magnetic field, and (3) a radiating electric field orthogonal to said enclosed magnetic field, said magnetic and induced electrical fields being applied at substantially the same frequency for accelerating and directing electrons, said excitation means including a coil having a toroidal contour for generating said magnetic and electrical fields and a gas housing having a substantially donut shaped closed contour positionally located internal said toroidal coil, said gas housing containing a predetermined gas composition, said predetermined gas composition having

atoms ionized by collisions with said accelerated electrons whereby energy in the ultraviolet bandwidth of the electromagnetic spectrum is radiated by said atoms as a result of said ionization, said toroidal coil being formed of a plurality of windings spaced apart each from the other a predetermined distance for providing said toroidal coil to be substantially transparent to said ultraviolet radiation;

(b) an electrostatic shield member of electrically conductive material substantially encompassing said excitation means for containing said radiating electrical field within said lighting system.

(c) a bulb member encompassing said electrostatic shield member as said excitation means;

(d) a fluorescent material coating an inner surface of said bulb member for absorbing at least a portion of said ultraviolet energy and re-radiating said absorbed energy external said lighting system in the form of visible light; and

(e) ballast means coupled to said excitation means for driving said excitation means.

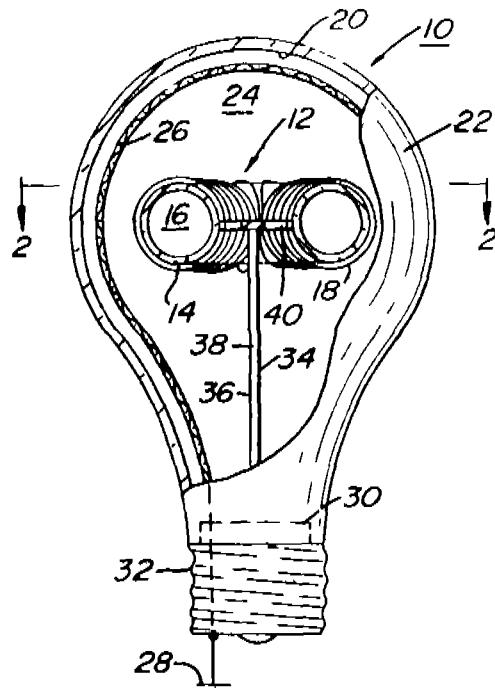


Fig. 1

Compl. Specn. 44 Pages.

Drgs. 2 Sheets.

CLASS : 32-F_{xc}.
 Int. Cl. : C 07 c 31/04

169009

METHOD OF PREPARING METHANOL.

Applicant: INSTITUT NEFTEKHIMICHESKOGO SINTESA IMENI A.V. TOPCHIEVA AKADEMII NAUK SSSR, OF LENINSKY PROSPEKT 29, MOSCOW, USSR.

Inventors: (1) ALEXANDR YAKOVLEVICH ROZOVSKY, (2) GALINA IVANOVNA LIN, (3) SERGEI MINOVICH LOKTEV, (4) VLADIMIR PETROVICH MOCHALIN, (5) ANATOLY ALEXANDROVICH KOCHETKOV, (6) VLADIMIR NIKIFOROVICH MENSHEV, (7) IGOR ALEXANDROVICH RYZHAK, (8) AIDA ANATOLIEVNA LENDER, (9) VIKTOR ANDREEVICH TOPCHY, (10) BORIS ALEXANDROVICH BULACHEV, (11) JURY VASILIEVICH LENDER.

Application No. 531/Cal/1987, filed on 10th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A method of preparing methanol, which comprises reacting a gaseous mixture containing carbon oxide, carbon dioxide, and hydrogen with a copper-containing catalyst as herein described characterized in that said reaction is carried out at 190–290°C under 5–10 MPa in two stages; at the first stage a copper-containing catalyst is contacted with a gaseous mixture containing 5–30 vol% of carbon oxide and 0.3–20 Vol% of carbon dioxide at a CO/CO₂ volume ratio equal to 0.25–87 and a H₂/(CO+CO₂) volume ratio equal to 2–3.65; the first stage is performed in one flow-type reactor or a cascade of flow-type reactors at a space velocity of the initial gaseous mixture equal to 4500–100000 h⁻¹ and the gaseous mixture obtained at the first stage contains carbon oxide, carbon dioxide, hydrogen methanol vapours, and 0.02–1.38 vol.% of water vapours; said methanol and water vapours are removed in a manner known per se from the gaseous mixture; the remaining gaseous mixture containing carbon oxide, carbon dioxide, and hydrogen is delivered to the second stage performed in the reactor with a circulation of the gaseous mixture at a space velocity of 7000–15000 h⁻¹ and the gaseous mixture obtained at the second stage contains carbon oxide, carbon dioxide, hydrogen, methanol and water vapours; said methanol and water vapours are removed in a manner known per se from the gaseous mixture.

Compl. Specn. 27 Pages.

Drg. NIL

CLASS : 9-D.
Int. Cl. : C 22 c 32/00.

169010

METHOD FOR PREPARING FERROCARBON MATERIAL FOR USE IN STEEL MANUFACTURE AND FURNACE THEREFOR

Applicant: MOSKOVSKY INSTITUT STALI I SPLAVOV, OF LENINSKY PROSPEKT, 4, MOSCOW, USSR.

Inventors: (1) VLADIMIR ANDREEVICH ROMENETS, (2) ANDREI VLADIMIROVICH VANJUKOV, (i) RUF ABBA-VOVNA BERKMAN, (ii) ANNA ANDREEVANA PEDOS, (iii) NATALYA ANDREEVNA VANJUKOVA, (3) ALEXANDR BORISOVICH USACHEV, (4) ALEXEI ALEXEEVICH UGAROV, (5) VALENTIN PETROVICH SYSTROV, (6) VALERY SERGE-EVICH VALAVIN, (7) VASILY ROMANOVICH GREBENNIKOV, (8) ANATOLY BORISOVICH GLOVATSKY, (9) GENNADY LEONIDOVICH GURSKY, (10) DMITRY IVANOVICH RYZHONKOV, (11) ALEXANDR DAVYDOVICH VASKEVICH, (12) VALENTINA MAXIMOVA CHIZHIKOVA, (13) ALEXANDR DMITRIEVICH YATSENKO-ZHUK, (14) VLADIMIR CRIGORIEVICH GUGLYA, (15) ALEXANDR MIKHA ILOVICH POZHIVANOV, (16) EVGENY FELIXOVICH

VEGMAN, (17) NIKOLAI ALEXEEVICH TULIN, (18) STANISLAVSILIEVICH KREMENEVSKY.

Application No. 575/Cal/1987, filed on 27th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

20 Claims

A method for preparing a ferroccarbon material as herein described which comprises reacting iron containing material as herein described carbon containing fuel and slag melt produced in the manufacture of ferrous metals, said reaction being carried out in the presence of oxygen containing gas characterized by:

(a) introducing an oxygen containing gas below the surface of a slag melt held in a slag melt zone at a level to form an upper bubbling slag melt zone and a lower quiescent slag melt zone;

(b) introducing an carbon containing fuel and an iron containing material as herein described into the slag melt to maintain a volumetric concentration of solid carbon coating fuel in the bubbling slag melt zone of from 0.5 to 50% whereby additional slag and a liquid metal are formed, the liquid metal sinking through the quiescent slag melt zone to form a layer of the desired ferrocarbon material zone; and

(c) recovering in a known manner separately the slag melt from the quiescent slag melt zone and the desired ferrocarbon material from the ferrocarbon material zone.

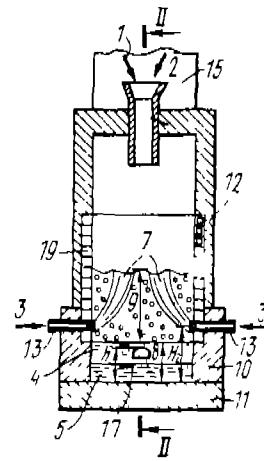


Fig. 1

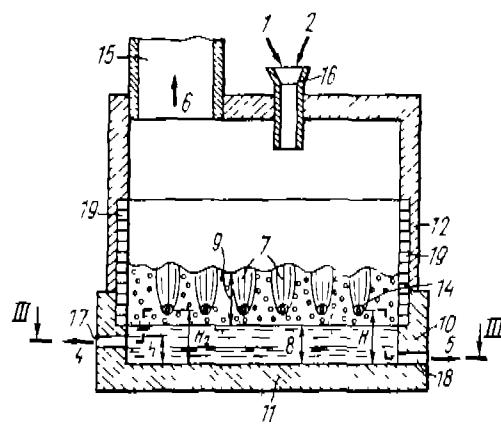


Fig. 2

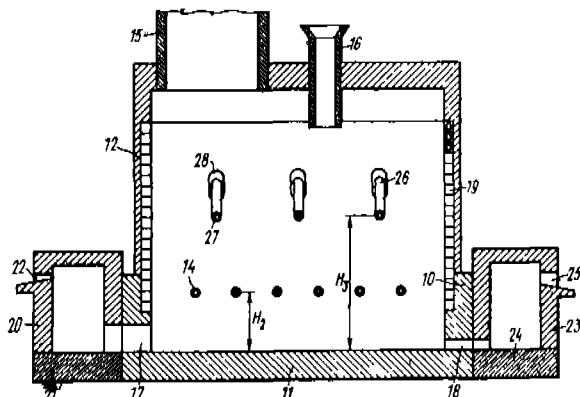


Fig. 7

Comp. Specn. 68 Pages.

Draw. 4 Sheet 1

- Class 3** No. 162729. Altrack Limited of 97 Outram Street, West Perth, State of Western Australia, Commonwealth of Australia. "Ground Engaging unit for tyre construction". December 6, 1990.

Class 3 No. 163209. Chinar Trust of C-37, Connaught Place, New Delhi-110001, India, Indian Trust. "Electric Iron". May 3, 1991.

Class 3 No 163210 & 163211. Chinar Trust of C-37, Connaught Place, New Delhi-110001, India, Indian Trust."Electric Iron". May 3, 1991.

Class 3 No. 163223. Chinar Trust of C-37, Connaught Place, New Delhi-110001, India, Indian Trust."Stem Fan Heater". May 6, 1991.

Class 10 No. 162963. Bata India Limited, 30, Shakespeare Sarani, Calcutta-700017, West Bengal, India. "Footwear". March 5, 1991.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

R. A. ACHARYA
CONTROLLER GENERAL OF PATENTS,
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